ISSN 0034-7744

REVISTA

DE

BIOLOGIA TROPICAL

UNIVERSIDAD DE COSTA RICA

CONTENTS

ALFARO MONTOYA, J., R. QUESADA QUESADA, E. ZAMORA MADRIZ, E. MADRIGAL CASTRO, & O. PACHECO URPI.– Comparative analysis of substrates for collection of mangrove oyster (*Crassostrea rhizophorae*, Guilding 1828) spat in Estero Vizcaya, Limón, Costa Rica [SPA] 1

QUESADA QUESADA, R., E. MADRIGAL CASTRO, J. ALFARO MONTOYA, O. PACHECO URPI, & E. ZAMORA MADRIZ.– Growth and survival of the mangrove oyster (*Crassostrea rhizophorae*, Guilding 1828) transferred from Estero Vizcaya, (Caribbean coast) to shrimp culture tanks in Chomes (Pacific coast), Costa Rica [SPA] 7

BARRANTES, R., J. AZOFEIFA, & L. MATA.– ABO and Rh blood groups and serum proteins in an Amerindian population from Matambú, Costa Rica [SPA] 13

WILLE, A.– *Peponapis* and *Xenoglossa* bees from Costa Rica and their importance in the pollinization of domestic cucurbits [SPA] 17

JIMENEZ R., J.A., & R. SOTO S.– Regional patterns in the structure and floristic composition of Pacific coast mangroves from Costa Rica [SPA] 25

PRAHL, H. von, & ANGELA MEJIA.– First record of an acroporidian coral, *Acropora valida* (Dana, 1846) (Scleractinia: Acroporidae) in the American Pacific [SPA] 39

BUSSING, W.A.– *Roeboides ilseae*, n. sp., a new scale-eating characid fish from Costa Rica . . . 45

SOLIS, VIRGINIA.– Satellite association patterns in post-partum women and in neonates [SPA]. 51

COMUNICACIONES

VALERIO, C.E.– Dispersal by anemogeochory in some Neotropical Cucurbitaceae 57

SIBAJA, W.G.– Shell parameters of *Mytella strigata* in Pacific Costa Rica [SPA] 59

MADRIGAL CASTRO, E., J. ALFARO MONTOYA, R. QUESADA QUESADA, O. PACHECO UURPI, & E. ZAMORA MADRIZ.– Population structure and size distribution of the mangrove oyster (*Crassostrea rhizophorae*, Guilding 1828) in Limón, Costa Rica [SPA] 61

GENE, J.A., B. LOMONTE, J.M. GUTIERREZ, & L. CERDAS.– Electrophoretic changes in the venom of the bushmaster (*Lachesis muta stenophrys*) stored under different conditions [SPA] 63

ETEJERE, E.O., O.T. MUSTAPHA, & G.A. AJIBADE.– Metabolism of the seed of *Adansonia digitata* L. 67

MUSSOT PEREZ, S., & A.M. van der HEIDEN.– Range extensions of four species of bothid flatfishes on the Pacifif coast of America 71

CAMPOS, J., & A. BORNEMISZA.– AMULPES 1: a computer program for analysis of fishery data [SPA] 76

MADRIGAL CASTRO, E., O. PACHECO URPI, E. ZAMORA MADRIZ, R. QUESADA QUESADA, & J. ALFARO MONTOYA.– Filtration rates in the mangrove oyster (*Crassostrea rhizophorae*, Guilding 1828), at different salinities and temperatures [SPA] 77

BUSSING, W.A. –Labrid fishes of Costa Rica [SPA]. 81

CLEMENT, C.R., J. MORA URPI, & SUELI DE S. COSTA. –Leaf area of the Pejibaye palm (*Bactris gasipaes* H.B.K.) [SPA] 99

SAVAGE, J.M., & N. J. SCOTT, JR. –The *Imantodes* (Serpentes: Colubridae) of Costa Rica: Two or three species? 107

VARGAS, L.G., & M. VARGAS V. –Predation of *Culex* spp larvae by *Priapichthys annectens* (Regan) (Piscis: Poecilidae) in the laboratory 133

OBERBAUER, S.F. –Plant water relations of selected species in wet and dry tropical lowland forests in Costa Rica 137

HERNANDEZ, F., PATRICIA RIVERA, & M.L. HERRERA. –*Campylobacter fetus* spp. *jejuni, Aeromonas hydrophila,* helicoid bacterias and coronaviruses in murine rodent intestine [SPA] 143

MORALES, MARIA ISABEL, & D. GRIFFIN III. –New records of liverworts from Volcan Poas National Poas, Costa Rica [SPA] 147

FOURNIER, L.A., & MARIA E. HERRERA DE FOURNIER. –Recovery of a Premontane forest by succession in Costa Rica [SPA] 151

FLORES, EUGENIA M., & DORA I. RIVERA. –Germination and growth of *Gliricidia sepium* (Jacq.) Steud (Papilionaceae) seedlings [SPA] 157

FLORES, EUGENIA M., L.A. FOURNIER, & E.G. GARCIA. –Morphology and demography of germination in Lauraceae of Costa Rica [SPA] 163

VARGAS ULATE, G. –Primary plant succession and recent vulcanism in Volcan Arenal and environs, Costa Rica [SPA] 171

COMUNICACIONES

VAN DER HEIDEN, A.M. –Additional morphometric data on *Harriotta raleighana* (Holocephali: Rhinochimaeridae) and description of copulation marks 185

HEDSTRÖM, I., JULIA SOTO MANITIU, & L.F. JIRON. –Two species of fruit flies, *Anastrepha* (Diptera: Tephritidae), new for Costa Rica 189

PEPE, P.J. –Littoral endolithic fauna of the Central American Isthmus 191

HEDSTRÖM, I. –*Anastrepha striata* (Diptera: Tephritidae), new for Guatemala 195

CORTES, J., & M.M. MURILLO. –Coral and reef communities of the Pacif coast of Costa Rica [SPA] 197